



## PATENT ABSTRACTS OF JAPAN

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C08F236/00**(21) Application number: **63201908**(22) Date of filing: **15.08.88**(71) Applicant: **IDEMITSU PETROCHEM CO LTD**(72) Inventor: **TODA TAKASHI  
WADA ARIHIRO****(54) PRODUCTION OF PETROLEUM RESIN****(57) Abstract:**

**PURPOSE:** To produce a petroleum resin with less odor and improved heat resistance effectively by carrying out the copolymerization or hydrogenation in two steps or adding a specific process.

**CONSTITUTION:** In the process of producing a petroleum resin by copolymerizing a cyclopentadiene monomer with a styrenic monomer and then hydrogenating the resulting copolymer, at least one of the following processes (a) to (e) is used; (a) a two-step copolymerizing process wherein the copolymerization is carried out in two

steps, (b) a flash-treating process wherein a copolymer obtd. by the copolymerization and/or a hydrogenated derivative thereof is flash-treated, (c) a thin-film evaporating process wherein the obtd. copolymer is subjected to thin-film evaporation, (d) a recycling process of low-MW polymer wherein a low-MW polymer evaporated during the thin-film evaporating process of the copolymer is recovered and reused for the copolymerization, and (e) a two-step hydrogenating process wherein hydrogenation of the copolymer is carried out in two steps, in each of which a different hydrogenation catalyst is used.

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